5847/404A

Sharp-Cutoff Pentode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings *(Absolute-Maximum Values)*:

Voltage (AC or DC)	6.3 ± 0.6	volts
Current at heater volts = 6.3	0.300	amp
Peak heater-cathode voltage:		
Heater negative with respect to cathode	55 max.	volts
Heater positive with respect to cathode	55 max.	volts

Direct Interelectrode Capacitances:

	Without External Shield	*With External Shield*[a]	
Grid No.1 to plate	0.05 max.	0.04 max.	μμf
Grid No.1 to cathode & grid No.3 & internal shield, grid No.2, and heater	7	7.1	μμf
Plate to cathode & grid No.3 & internal shield, grid No.2, and heater	2.5	2.9	μμf

Characteristics, Class A_1 Amplifier:

		b	
Plate Supply Voltage	150	160	volts
Grid-No.2 Supply Voltage	150	160	volts
Grid-No.1 Voltage	–	8.5	volts
Cathode Resistor	110	600	ohms
Transconductance	12500	12500	μmhos
Plate Current	13	13	ma
Grid-No.2 Current	4.5	4.5	ma

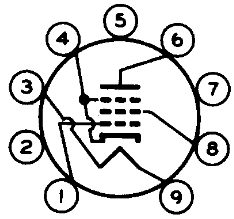
Mechanical:

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	1-3/4"
Maximum Seated Length	1-1/2"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/8" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See *General Section*
Bulb	T6-1/2

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Base. . . . . .Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW. 9X

Pin 1 - Grid No.1
Pin 2 - No Internal Connection
Pin 3 - Heater
Pin 4 - Cathode, Grid No.3, Internal Shield



Pin 5 - No Internal Connection
Pin 6 - Plate
Pin 7 - No Internal Connection
Pin 8 - Grid No.2
Pin 9 - Heater

AMPLIFIER — Class A_1

Maximum Ratings, *Absolute-Maximum Values:*

PLATE VOLTAGE	200	max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE	165	max.	volts
CATHODE CURRENT	40	max.	ma
GRID-No.2 INPUT	0.85	max.	watt
PLATE DISSIPATION	3.3	max.	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance.	0.1	max.	megohm

[a] With external shield JEDEC No.315 connected to cathode.
[b] Operating conditions to minimize gain variations due to supply-voltage fluctuations.